

BUILD AS YOU GO NANO FACTORY

A Honeycomb® Pioneer Product

Start small, think big.

**Going exploring or prospecting?
Bring the comforts of home with you and easily set up on site.**

Historically, prospecters and explorers would bring a few essential tools, perhaps a tent, and, not least, pioneering spirit, as they went into the unknown regions of the world.

As we moved into the space age, exploration gear necessarily became more complex and cumbersome as challenging environments and basic survival in space had to be overcome.

Here at Honeycomb® we want to bring things back to basics and simplify the process of you getting set up easily, quickly and intelligently as you go exploring. We aim to secure basic comfort, safety and shelter even in the harshest of environments and let you create your own home away from home.

The Science

Using a combination of Nano robotics, AI technology, and locally sourced carbon based material, your portable Honeycomb® Nano Factory can set you up in no time.

Materials: The Honeycomb® Nano Factory uses unprocessed carbon as its basic building blocks for generating intelligent graphene, one of the strongest and lightest composite materials available today. Intelligent graphene is composed of atom thick planar sheets, with the atoms composed in a honeycomb shaped lattice, and form the perfect base for producing structures of your choice.

Carbon is the 4th most readily available resource in the known universe and one of its basic natural building blocks.

Starting at the atomic level, using a simple and constructively strong and flexible Honeycomb® Intelligent graphene structure, you will be able to generate any shape, big or small.

AI: Honeycomb® Nano robotics also start at the atomic level, and in shape and size they adhere to the honeycomb lattice principle, forming grab-ons and conductive elements. As they themselves are carbon based, they make perfect partners with intelligent graphene.

When feeding the Honeycomb® Nano Factory locally sourced carbon material, the intelligent nano components will duplicate themselves and adjust to the desired settings, and form the structure accordingly with minimal waste.

Your chosen structure, being built out of replicated intelligent nano graphene elements, will be able to conduct essentials, such as water, electricity and data. The atomic size of the nano elements also ensure that your structure can be completely sealed against the outside environment if need be.

Portability. From sizes no bigger than a purse, and made from light and durable graphene components, you can bring along your Honeycomb® Nano Factory anywhere in the universe.

For larger setups, simply let the Honeycomb® Nano Factory duplicate itself, using locally sourced material, by choosing the Duplicate Setting.

Fits any surface: Due to the building elements starting at atomic size level, your shelter will fit snugly to any surface or crevice. The AI settings can determine if the locally available materials lend themselves to grinding, melting, smelting or bonding, depending on whether a surface structure, or dug out cave structure is required.

Easy to use: You don't have to be a scientist to set it up. The Honeycomb® Nano Factory can be used by anyone needing a home away from home on new worlds.

Simply use 5 easy steps.

- Locate a site, using the carbon density sensor, which contains carbon based material to be sourced.
- Open the Honeycomb® Nano Factory and run the environmental test in order to set up the applicable AI settings.
(A carbon test kit is integrated in the Honeycomb® Nano Factory -only a few grains or drops of material are needed, and the factory will identify and sort out the useful elements and continue from there).
- Choose size of shelter and number of people
- Generate and spread out a survey net for optimal fit.
- Choose which of the three pre-set types of shelter you want

The Three Types of Shelter Included in the Honeycomb® Nano Factory:

Above ground shelters:

Applicable on any solid surface, flat, vertical or hung from above.

Settings:

Generate and spread out survey net.

Choose number of people

Choose sealed (livable atmospherics and airlock) or unsealed.

Create atmospherics, which will also serve to pressurize the shelter, which will be welded to the ground.

Below Ground:

This setting can be used both in existing caves and to provide a fresh dig, and can also be used for exploratory mining, as the Honeycomb® Nano Factory will set up a net structure from waste materials, securing the resulting hollow and walls against cave-ins as work progresses.

Settings:

Generate and spread out survey net.

Choose applicable cave size and depth.

Choose sealed (livable atmospherics and airlock) or unsealed.

Floating:

This setting is applicable to for example open space or underwater structures, as it will generate a fully spherical shape in order to maximally deal with issues of atmospheric pressure.

Settings:

Choose Liquid or Atmospheric

Choose number of people

Extras:

Free Form Setting:

Once the main shelter membrane is in place, feel free to proceed with interiors, insulating layers, furniture, tools and mechanicals, water and air filters, even toys for your kids as needed.

***Disclaimer:** *Honeycomb® takes no responsibility for structures created with the Free Form Setting, as they fall outside the structures tested and approved by the Interstellar Building Code. We do however encourage creative initiative and recognize the need for adaptability when faced with the unknowns of deep space.*

Phone home: Once you have secured comfort and shelter, use the originally laid out survey net and structure's inherent conductive capabilities to set up communication and let your people know how you are getting on.

Expand: Having set up basic camp, you can use the Honeycomb® Nano Factory's self generating capabilities to expand your complex as needed. As the Honeycomb® Nano Factory is composed of purpose made, artificially intelligent nano robots, capable of making more of their own kind, given access to material to build from, you can exponentially expand productivity and scale of your build as you go along.

Repair: Don't die -Stay Alive! Safety and durability is a top priority at Honeycomb®. The membranes and structures produced with and from nano robots are environment and radiation sensitive, and can therefore sense any breeches or tears and self repair as they occur, securing your shelter against the elements.

We hope you enjoy your purchase.

Busy Bees Build for Life.

***Disclaimer:**

All Honeycomb® products and structures are made from a web of intelligent atom sized mini robots, in accordance with Christoph Salge's Information-Based Driving Principle for Sensorimotor Systems and the Empowered Expansion of Asimov's Law of Robotics in order to best safeguard you and your loved ones from rogue AI.